

FIG. 1

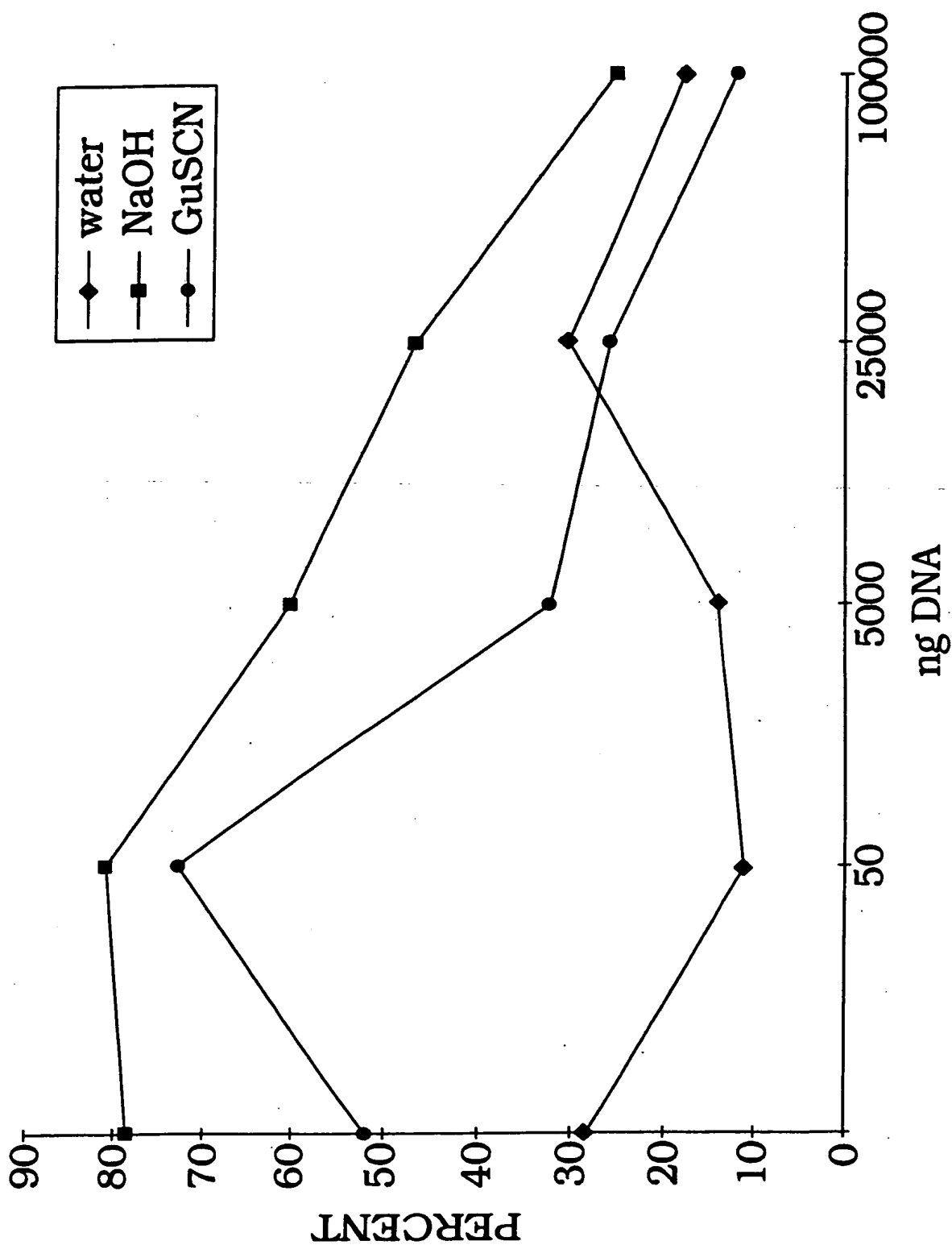


FIG. 2

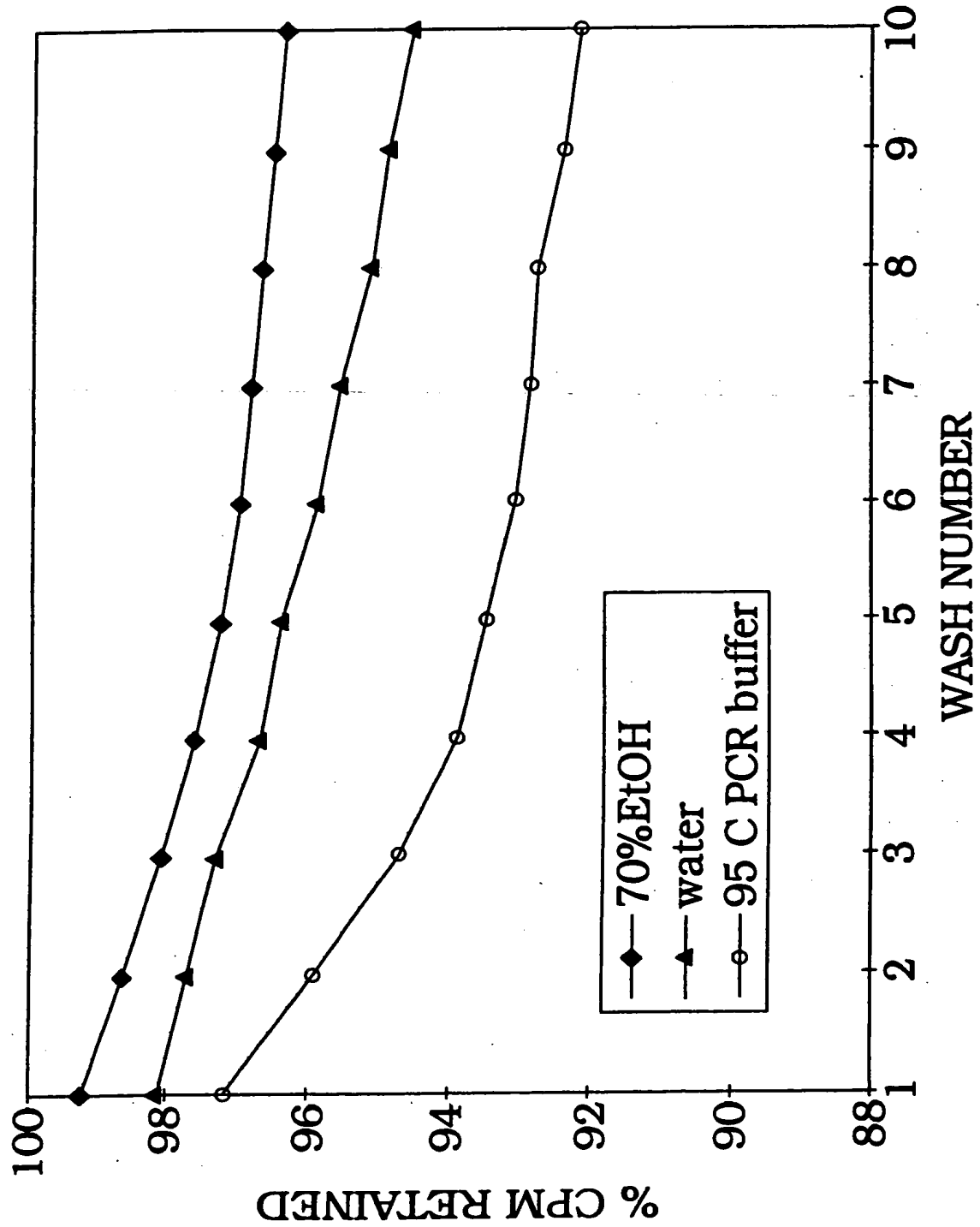


FIG. 3

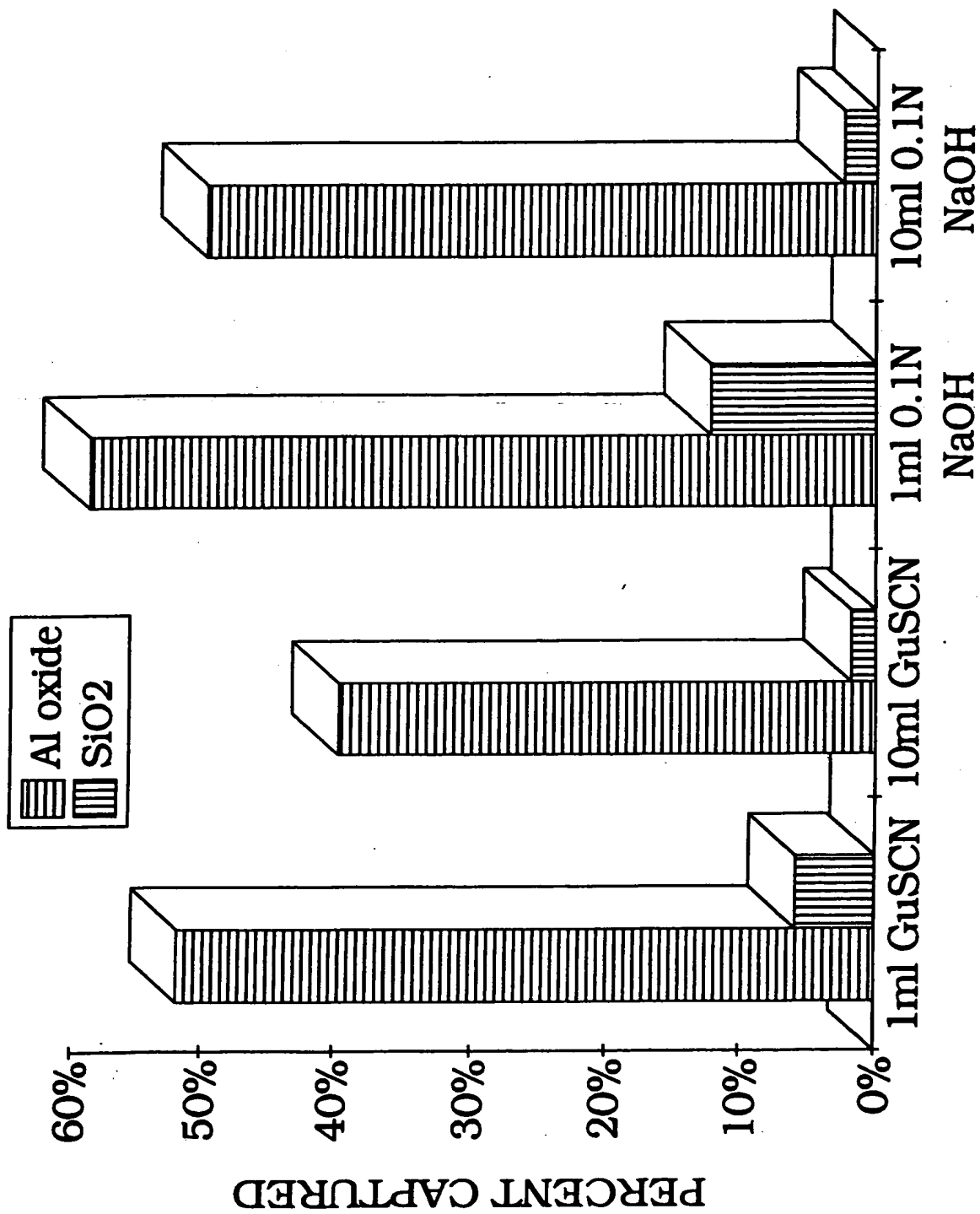


FIG. 4

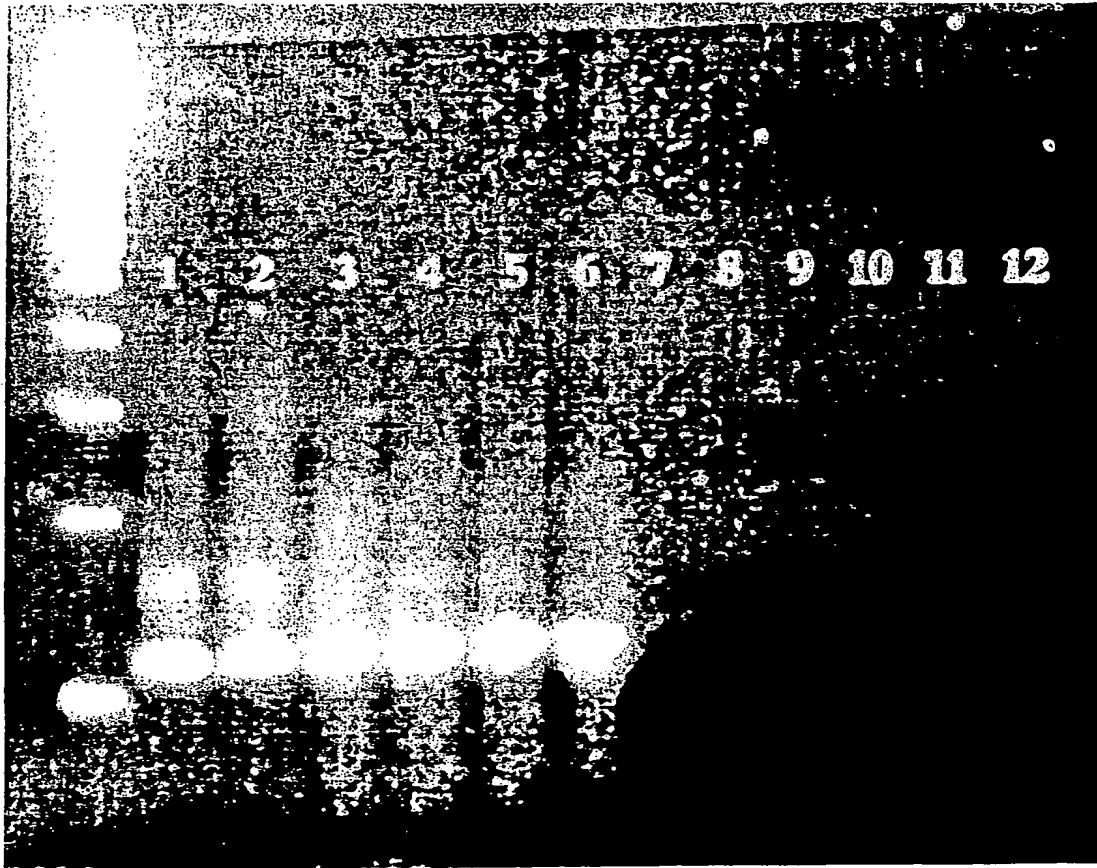


FIG. 5

Panel A

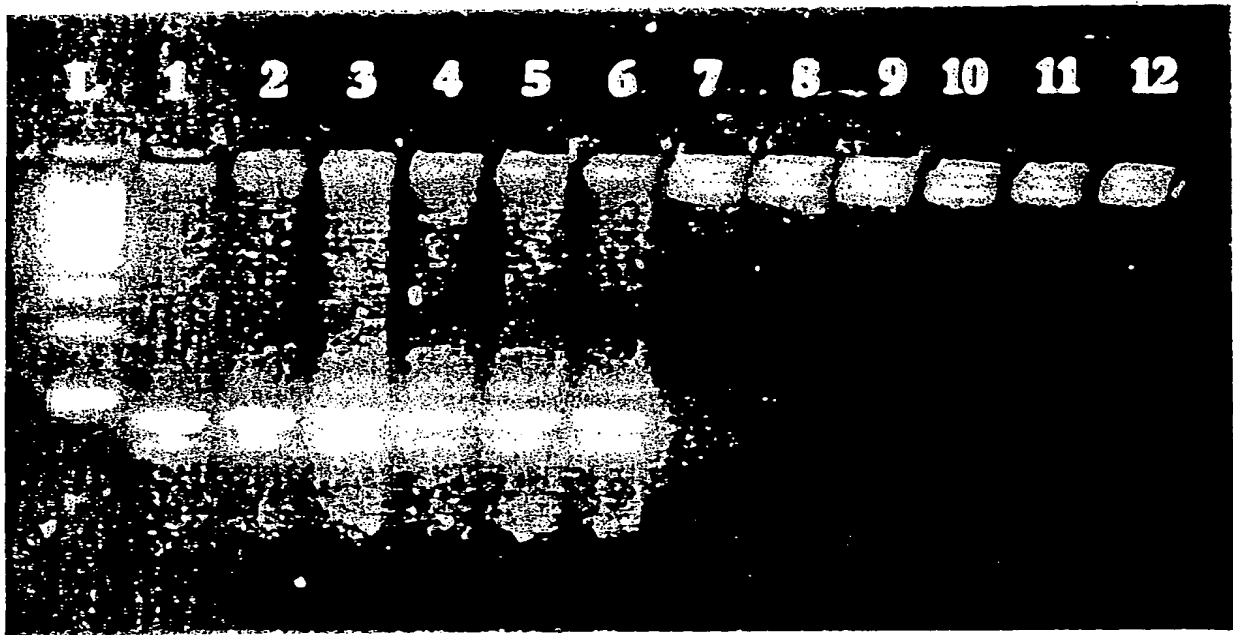


FIG 5

Pan 1 B

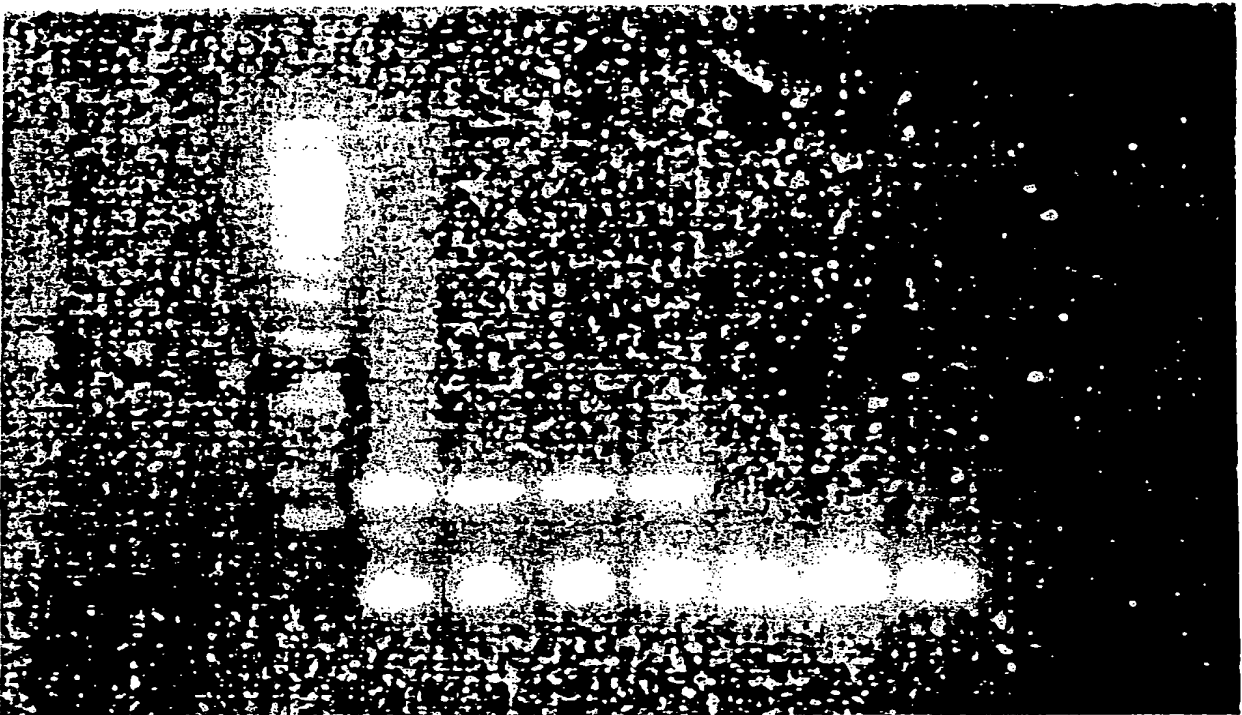
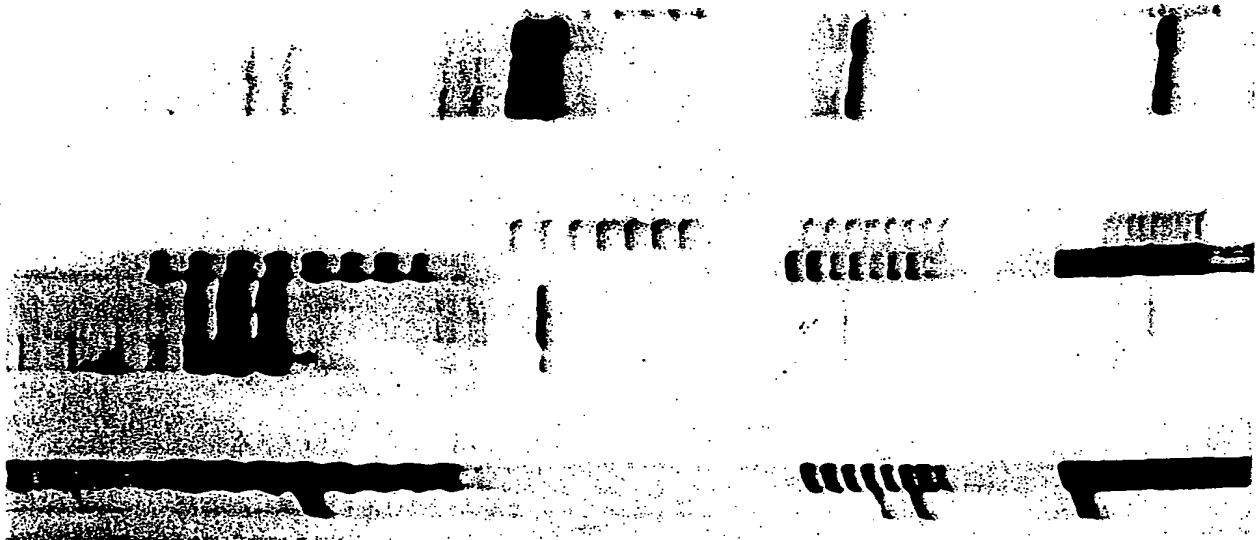


FIG. 6

FIG. 7



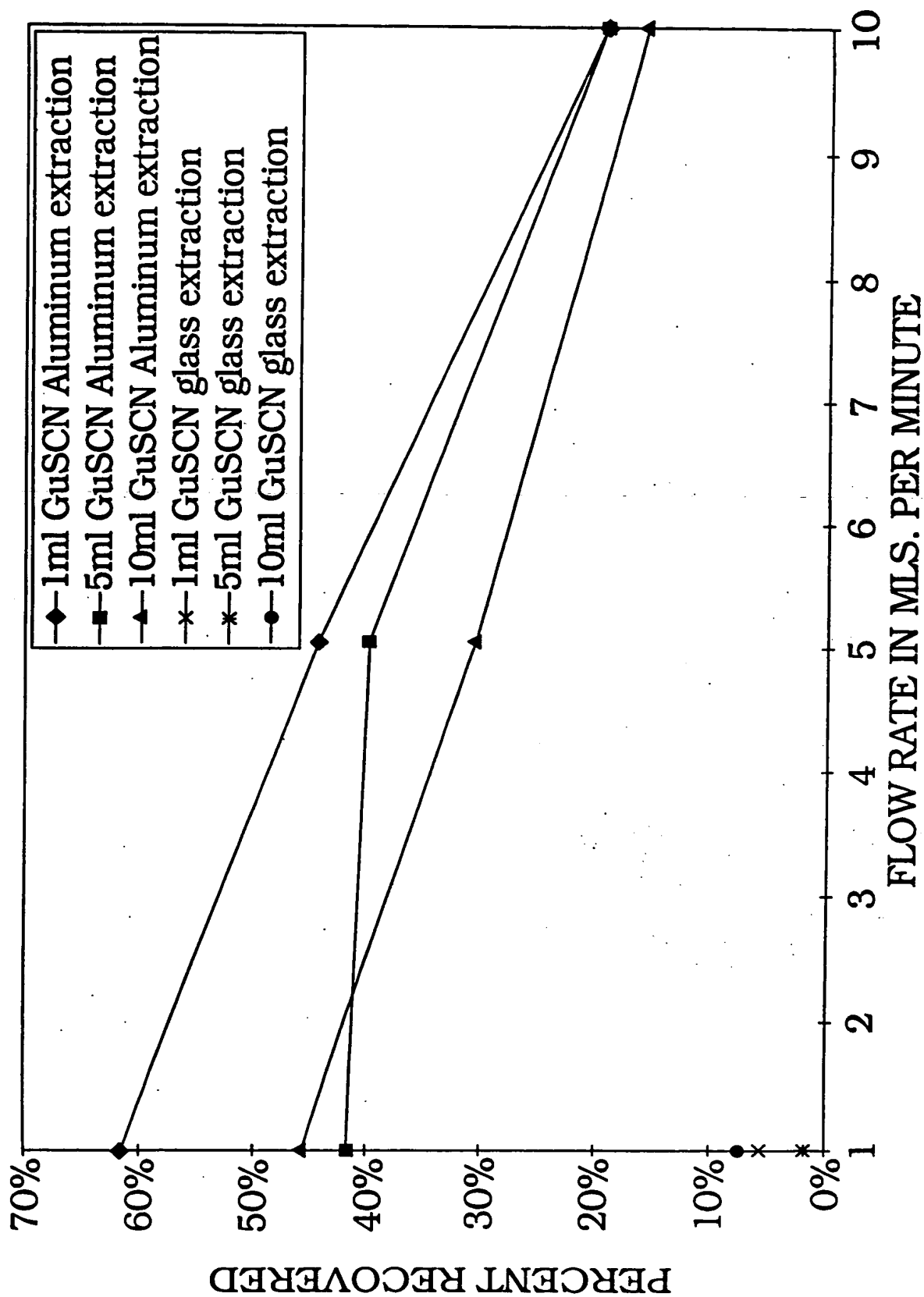


FIG. 8

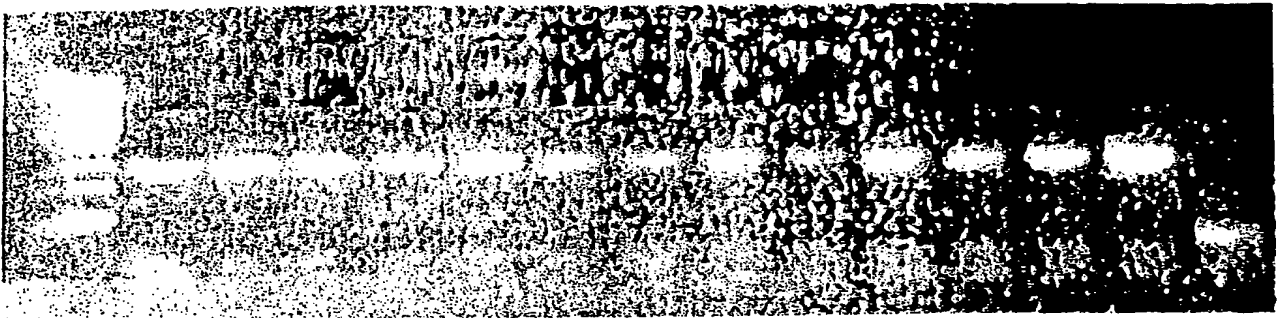


FIG. 9



FIG 10

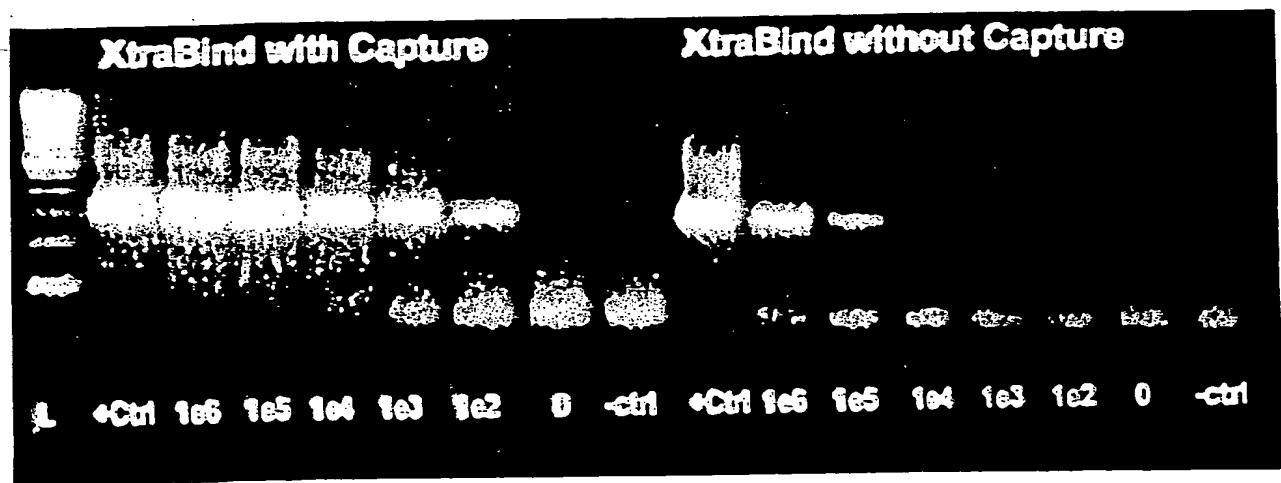


FIG. 11

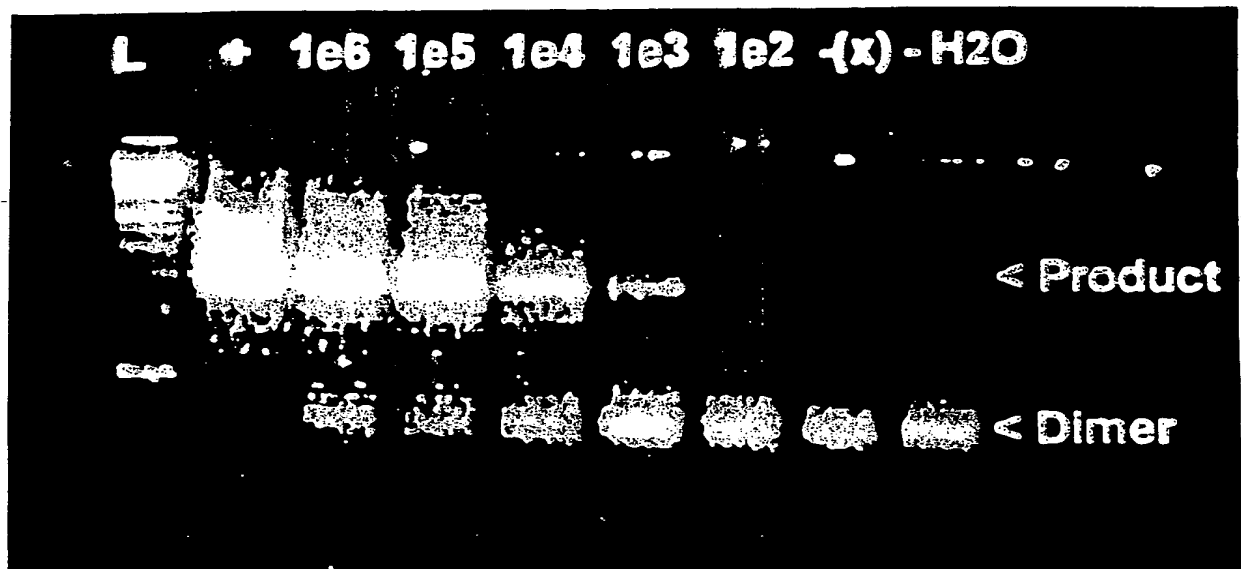


FIG. 12

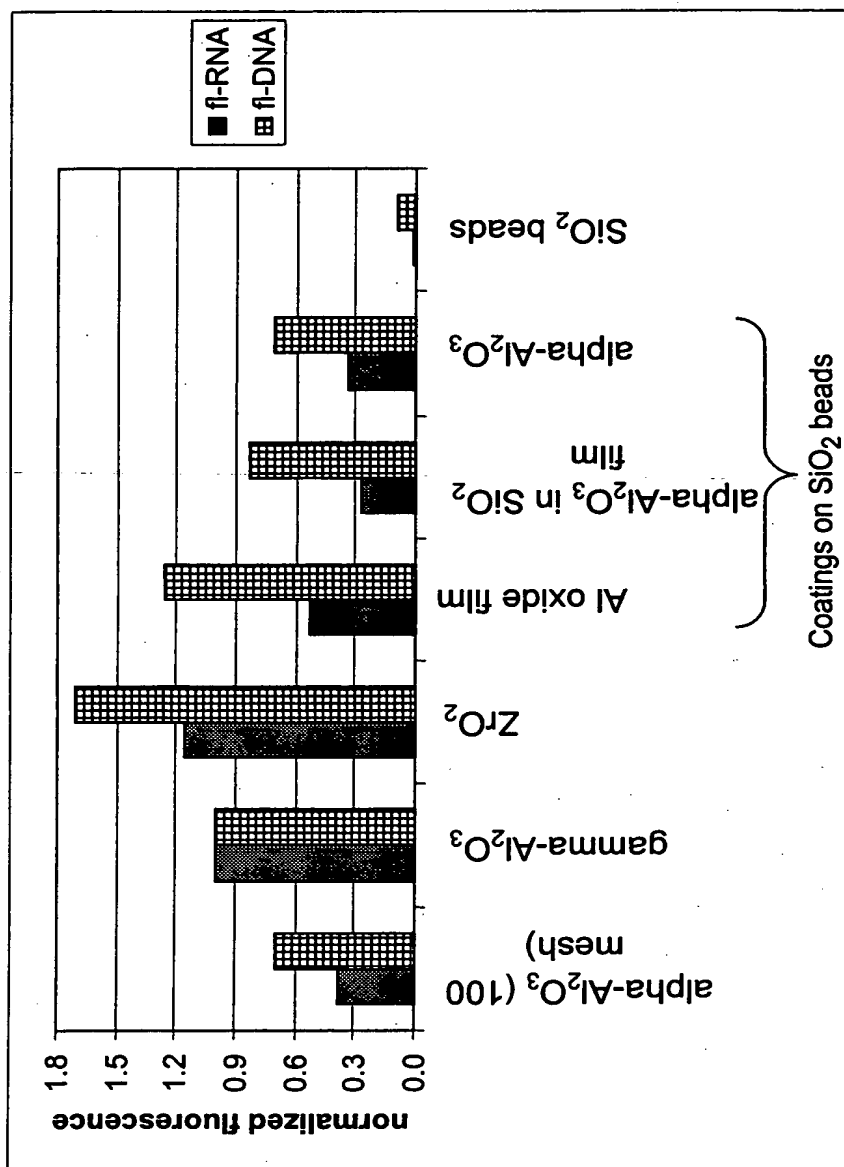


FIG. 13

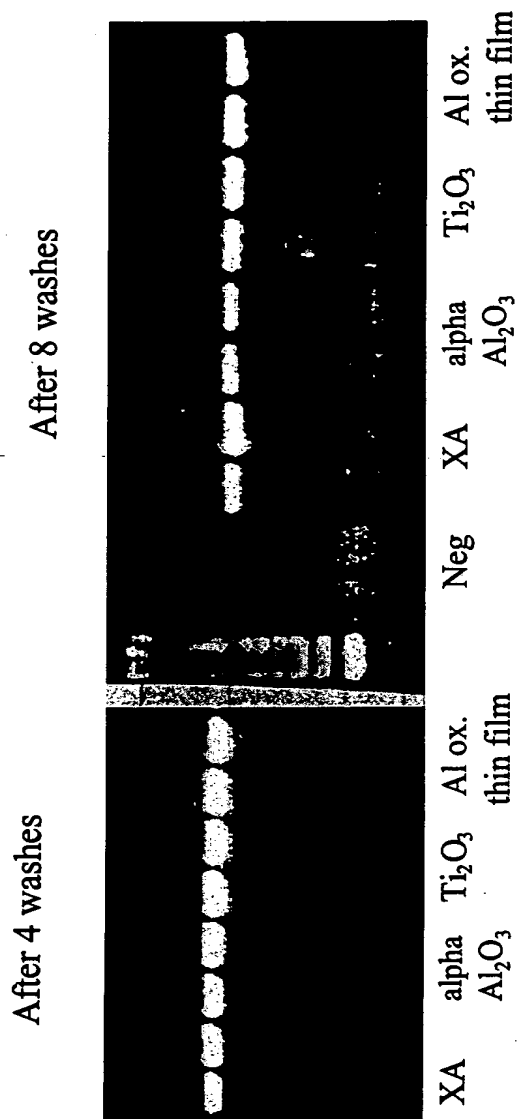
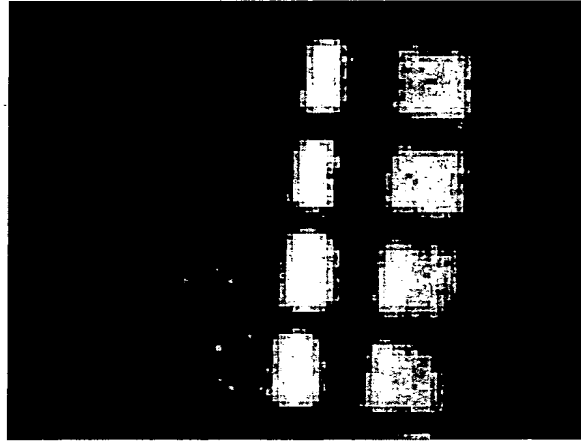


FIG. 14

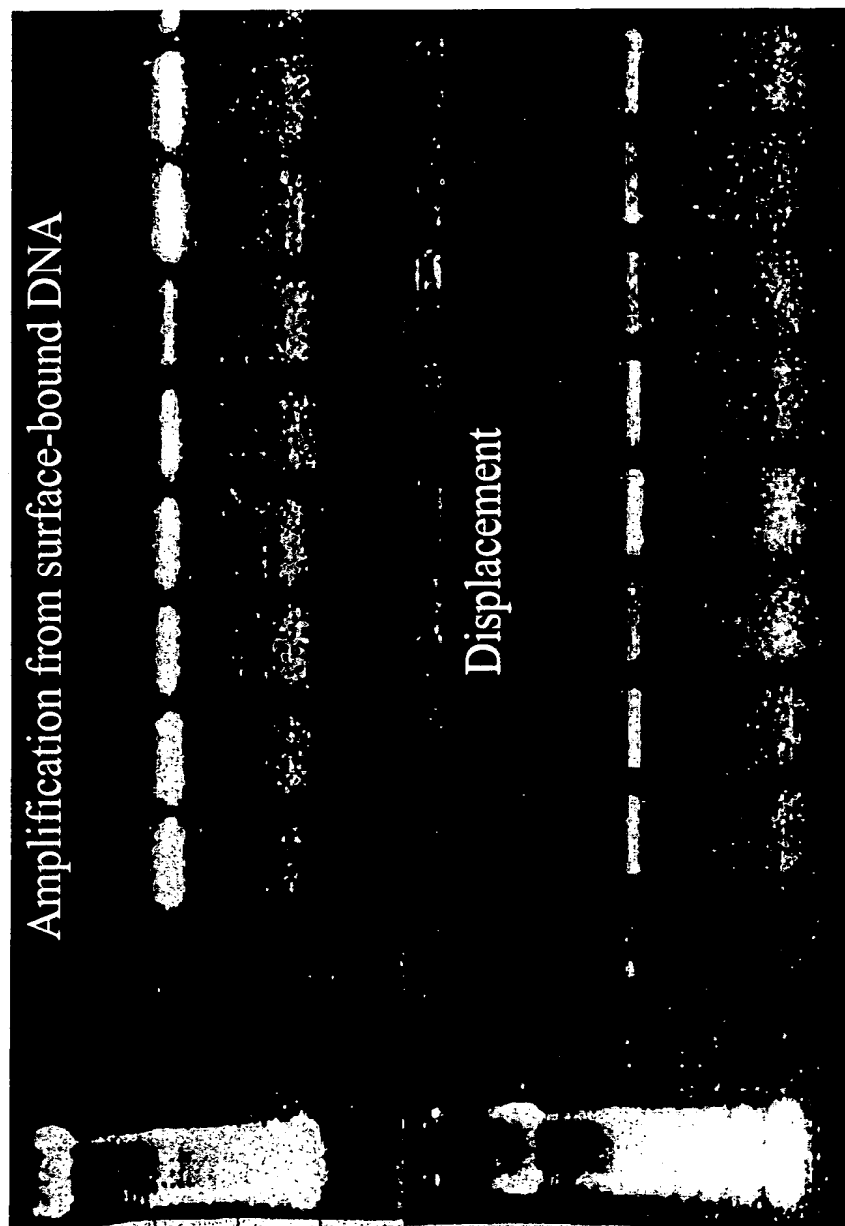


156 ng 17 ng
DNA

FIG. 15

1	XTRA AMP		1	Ti SLURRY	
2		10^3	4 2		10^3
3		1	4 3		1
4		10^2	4 4		10^2
5		1	4 5		1
6		10^1	1 6		10^1
7		1	0 7		1
8		2×10^0	0 8		2×10^0
9		1	0 9		1
10			10		
11			11	FILTER / Ti SLURRY	
12		NC-XA	4 12		10^3
13			4 13		1
14		NC-Ti	0 14		10^2
15			3 15		1
16		NC-F	0 16		10^1
17			2 17		1
18	*Note: All Signals Read at 20 minutes.		2 18		2×10^0
19			2 19		1

FIG. 16



Neg	XA	α -Al ₂ O ₃	Ti ₂ O ₃	Al ox. thin film
-----	----	--	--------------------------------	---------------------

FIG. 17

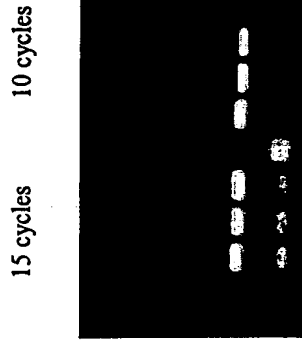


FIGURE 19

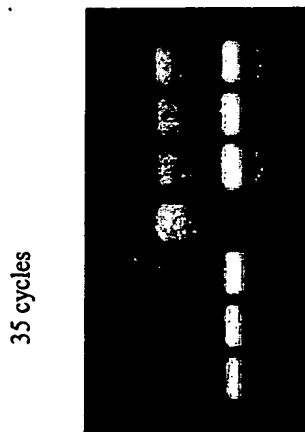


FIGURE 18

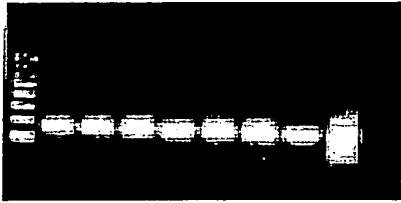


FIGURE 20

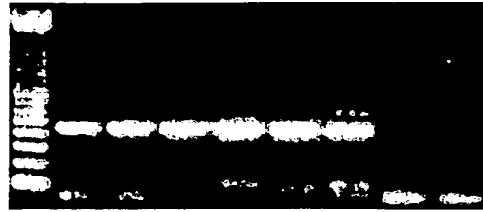


FIGURE 21

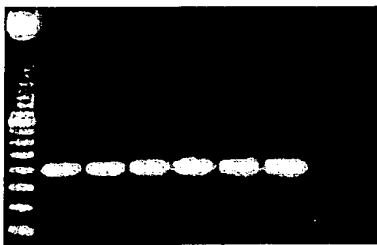


FIGURE 22

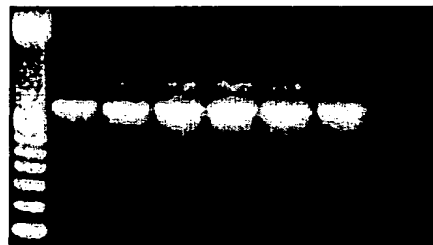


FIGURE 23



FIGURE 24

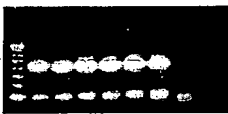


FIGURE 25

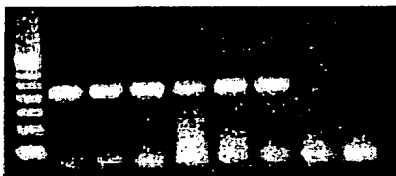


FIGURE 26